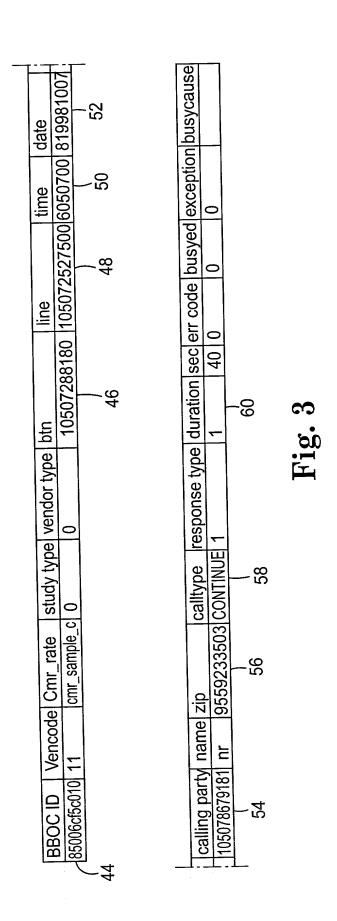


Fig. 2



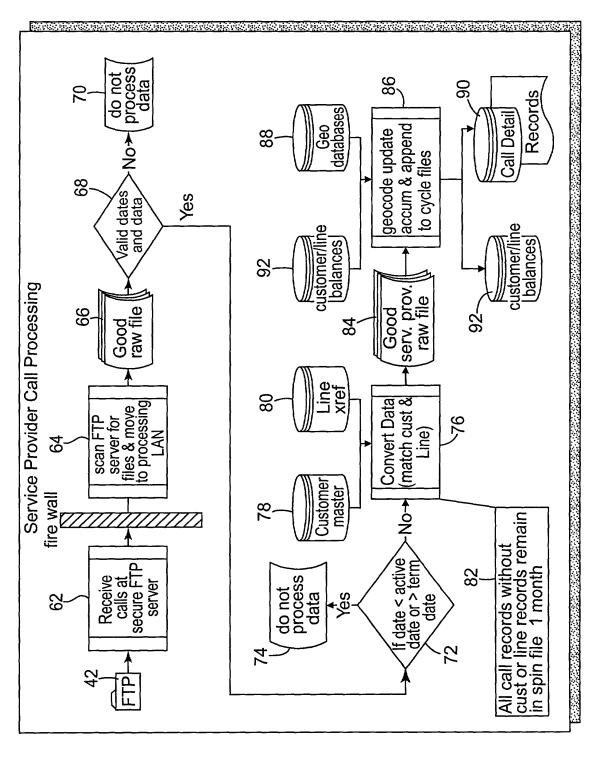
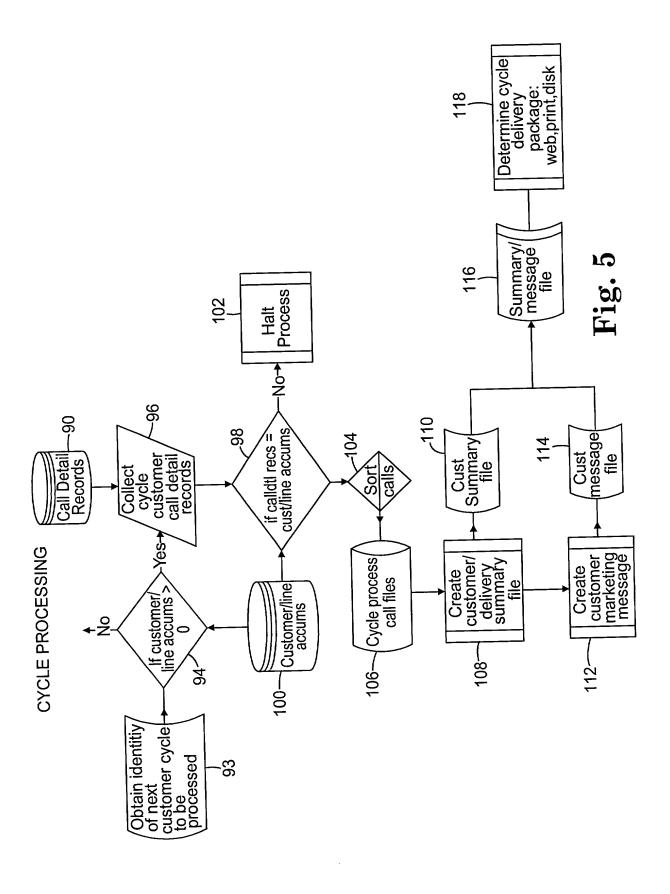


Fig. 4



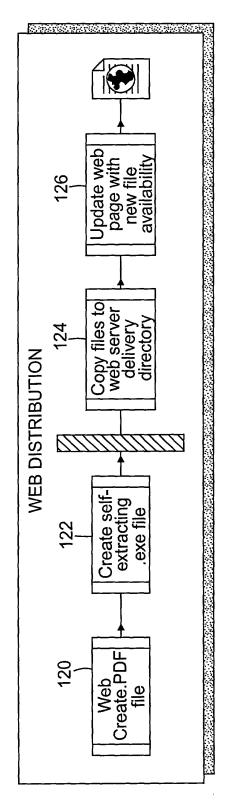


Fig. 6

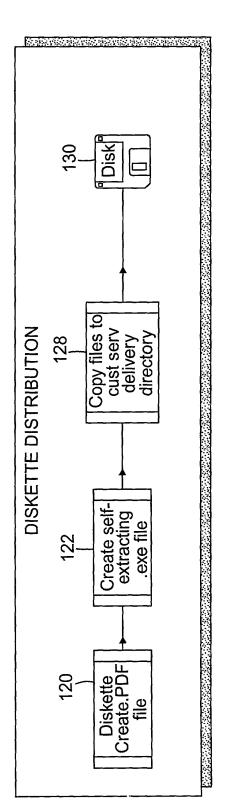


Fig. 7

X A A A A
39.082738 39.082738 39.082783 39.082483
-84.530487 -84.530487 -84.529001 -84.529001
1135 1135 1160
410111135 410111135 410111136 410111160 410111160
unavailable 410111135 unavailable 410111135 unavailable 410111160 unavailable 410111160 unavailable 410111160
3 5 5 5 5
3450 0 1610 710
34
0
00-00
116 I 116 I 544 I 564 I
6062198 6062198 6062198 6062916 6069214
551212 551212 551212 551212
AW 5135 PM 5138 AM 5138 AM 5138
102.43:02 04:59:46 10:21:30 19:26:36
8/20/98   02:43:02 PM   5135551212   6062198116   8/20/98   02:43:02 PM   5135551212   6062198116   8/21/98   04:59:46 PM   5135551212   6062198116   8/18/98   10:21:30 AM   5135551212   6062916544   8/19/98   09:26:36 AM   5135551212   6069214564

Fig

Geoco	Geocoding logic hierarchy Criterion			Value
180,	9 digit zip exists otherwise otherwise otherwise otherwise otherwise otherwise otherwise	in zip field 9 digit zip (1st 5 digits) 9 digit zip (1st 3 digits) npanxx of calling # field npa of calling # field use special value indicating unknown origin	& exists in -> 9 digit zip DB exists in -> 5 digit zip DB exists in -> 3 digit zip DB exists in -> npanxx DB exists in -> nap DB unknown origin	人日〇〇旦斤
•	S,7, or 8 digit zip AND otherwise	exists in zip field (bad data) npanxx of calling # field npa of calling # field use special value indicating unknown origin	exists in -> npanxx DB exists in -> nap DB unknown origin	O I _
	5 digit zip exists in otherwise otherwise otherwise otherwise	in zip field 5 digit zip (1st 3 digits)	& exists in -> 5 digit zip DB exists in -> 3 digit zip DB exists in -> npanxx DB exists in -> nap DB unknown origin	קבצרΣZ
otherwise, IF	188	<ul> <li>CASE 4</li> <li>Gigit zip exists in zip field (bad data)</li> <li>AND npanxx of calling # field exists in -&gt; otherwise npa of calling # field exists in -&gt; otherwise use special value indicating unknown origin</li> </ul>	exists in -> npanxx DB exists in -> nap DB unknown origin	ФQК
otherwise, IF	0 or null exists AND otherwise	in zip field (no zip) npanxx of calling # field exists in -> e npa of calling # field e use special value indicating unknown origin $Fig. 9$	exists in -> npanxx DB exists in -> nap DB unknown origin	<b>⊗</b> ⊢⊃

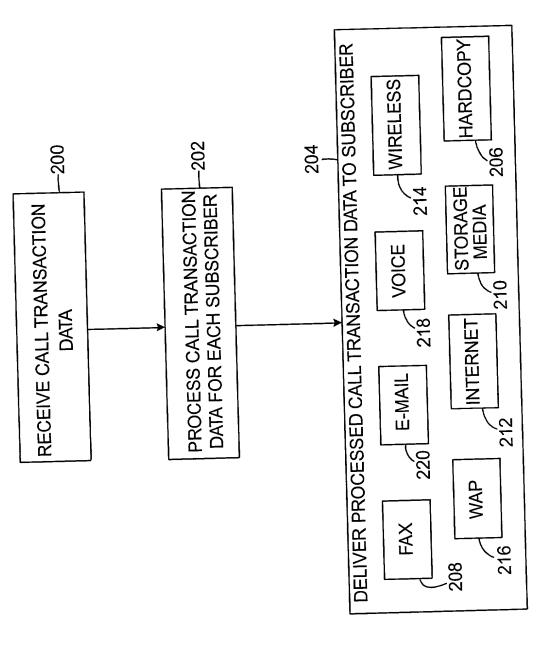


Fig. 10

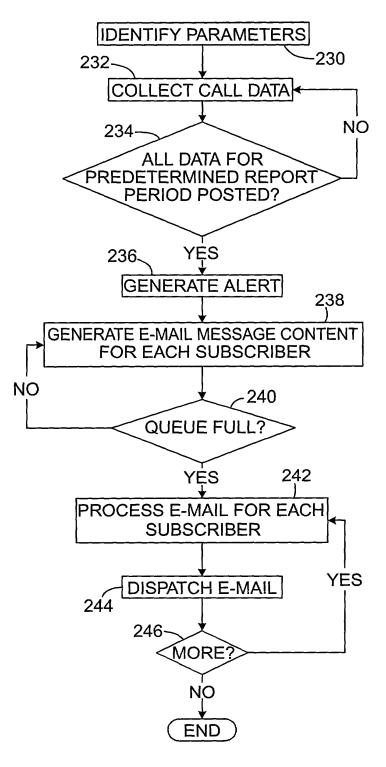


Fig. 11

252 TeleFlash @xyztelco.com 250 From: 254 Monday, April 10, 2000 8:00 Sent: To: customer@ispserver.com Subject: Telco Weekly Call Summary Telephone Co. TeleFlash 256 258 Here is your call summary information for the week of: April 3, 2000 - April 9, 2000 Phone Number: 301-555-1234 Total incoming calls for the week: 2909 Total answered calls for the week: 2744 (94%) Total unanswered calls for the week: 30 (1%) Total busy calls for the week: 134 (5%) 260 Total other calls for the week: 1 (0%) Your 7 day average calls per day: 416 Your Mon-Fri average calls per day: 562 Your busiest calling day: Thursday 3-4 PM Your busiest calling hour: 262-Try Call Option-1 for as low as \$25.00 a month http://www.xyztelco.com You will be able to analyze: Maps of calls and callers 266 Lists of top callers and callers who received busies Who you spend the most amount of time with? Trends of what happens by week, month, etc... How effective your marketing and advertising programs are? Advertisement Text... Advertisement Text... Advertisement Text... Advertisement Text... 264 270 If you would like to have this E-mail sent to other individuals within your company, go to http://www.xyztelco/teleflash.com/personalpage If you would like to stop receiving this E-mail notification, go to 268 http://www.xyztelco/teleflash.com/personalpage

Fig. 12

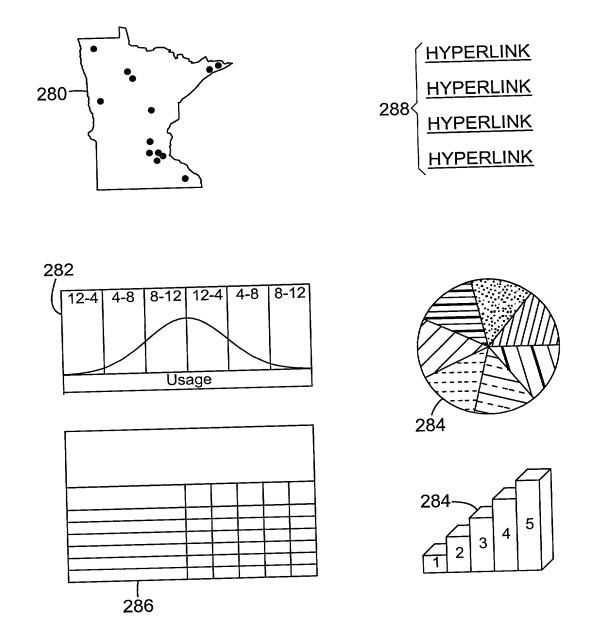
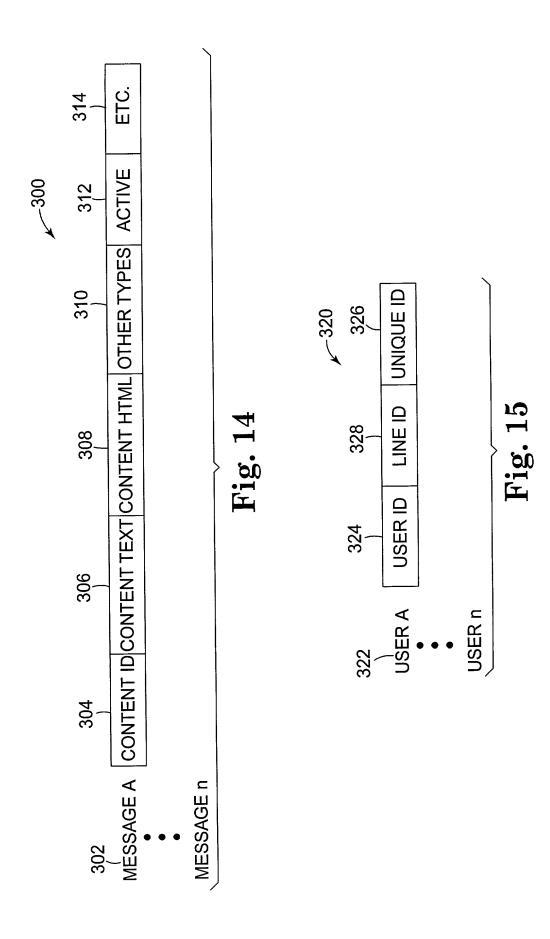


Fig. 13



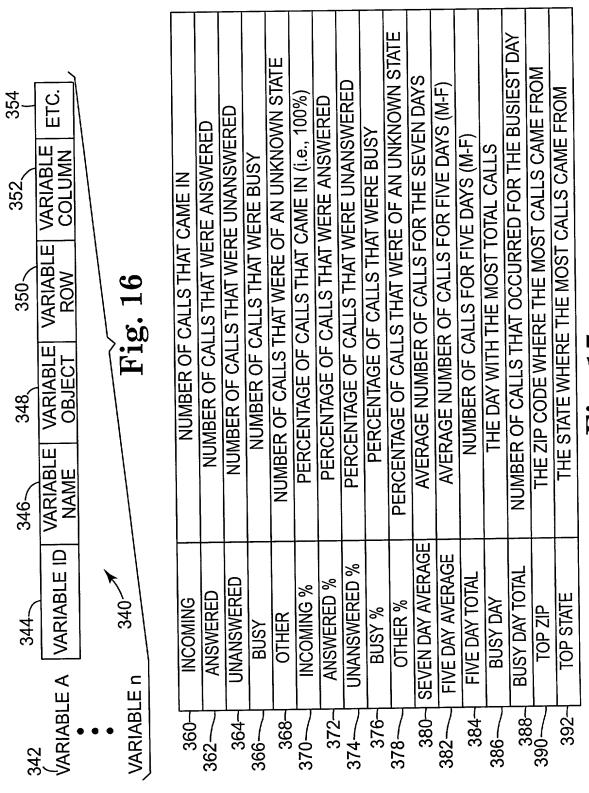


Fig. 17

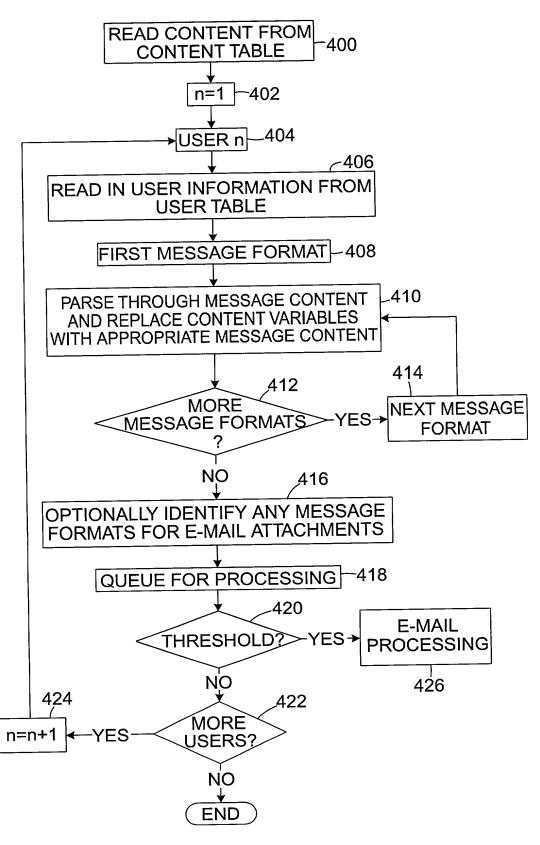


Fig. 18

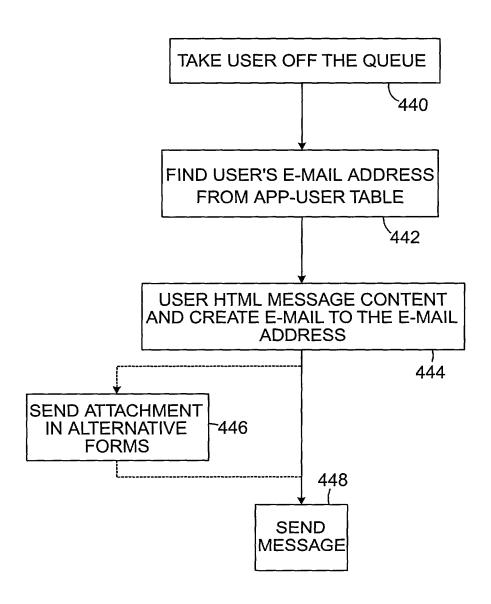


Fig. 19

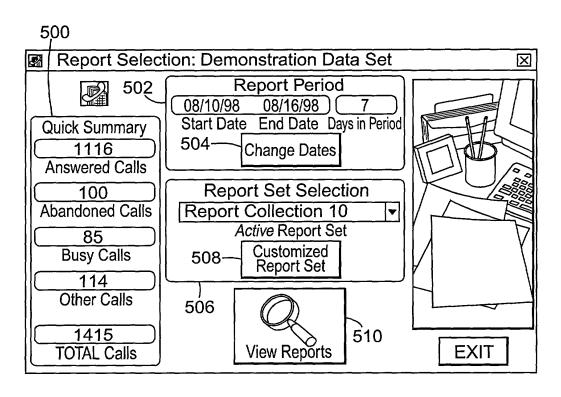


Fig. 20

	520							
August 1998								
Mon	Tue	Wed	Thu	Fri	Sat	Sun		
27	28	29	30	31	1	2		
3	4	5	6	7	8	9		
10	11	12	*ACTIVE* Available	14	15	16		
17	18	19	Availa He	21	22	<del>2</del> 3		
24	25	26	27	28	29	30		
31	1	2	3	4	5	6		

Fig. 21

	230	
Select Sets    Clear   Clear   Clear   534 OSelect Telephones   534 OSE	Call Types Call Types Call Type By Hour (daily Detail) Call Type By Hour (weekly Total) Call Type By Hour (daily Detail) Call Type B	OK
Report Collection 10 Report Sets Report in Set: 1		Tips
	-228	

Fig. 22

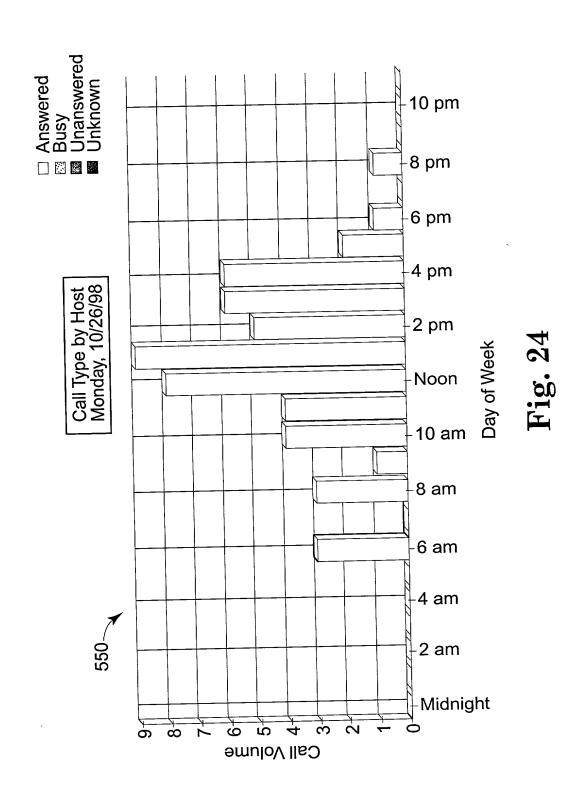
October 26,1998 - November 1, 1998

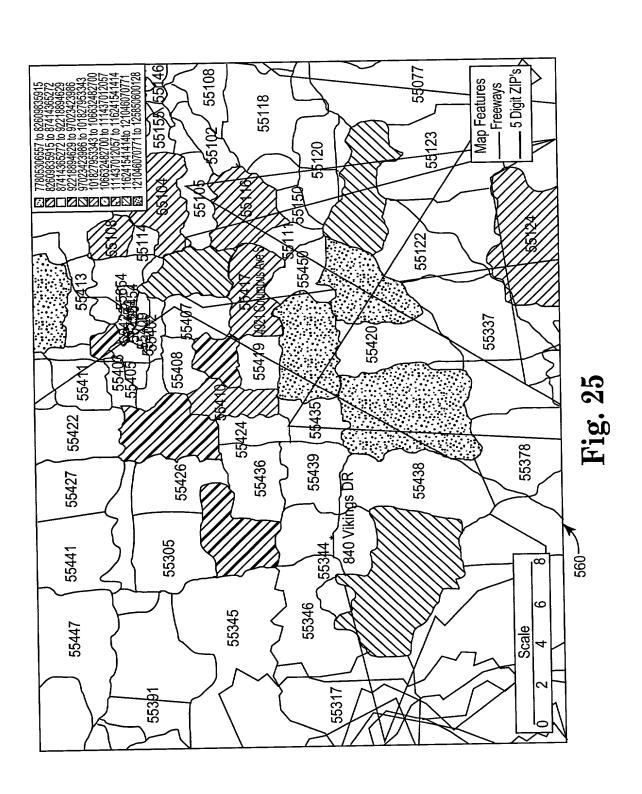
## **New ZIP Codes**

New ZIP codes discovered in the current date range ranked by answered call count.

New ZIF codes discovered if			, <del></del> -	<del>,</del>	
Zip Code	State	Call Count	<del> </del>	Last Call Date & Time	Total Duration
55402	MN	11	10/26/98 11:07:00 AM	10/30/98 02:46:00 PM	0:27:40.0
55416	MN	11	10/26/98 12:11:00 PM	10/29/98 02:37:00 PM	0:11:25.0
84111	UT	6	10/26/98 09:56:00 AM	10/28/98 02:15:00 PM	0:31:12.0
55343	MN	6	10/26/98 01:38:00 PM	10/30/98 11:57:00 AM	0:14:28.0
56304	MN	5	10/26/98 06:43:00 PM	10/28/98 05:47:00 PM	0:44:51.0
85012	AZ	4	10/27/98 05:15:00 PM	10/29/98 05:48:00 PM	0:06:14.0
55347	MN	4	10/26/98 06:51:00 AM	10/28/98 02:43:00 PM	0:02:31.0
98191	WA	3	10/26/98 10:34:00 AM	10/29/98 06:09:00 PM	0:16:07.0
55104	MN	3	10/26/98 11:48:00 AM	10/27/98 11:30:00 AM	0:03:12.0
55415	MN	3	10/27/98 05:34:00 PM	10/30/98 01:03:00 PM	0:02:17.0
80132	CO	3	10/26/98 12:57:00 PM	10/26/98 02:57:00 PM	0:01:24.0
55425	MN	2	10/26/98 04:25:00 PM	10/28/98 03:56:00 PM	0:06:05.0
98188	WA	2	10/28/98 01:26:00 PM	10/28/98 01:29:00 PM	0:05:34.0
83204	ID	2	10/30/98 11:09:00 AM	10/30/98 11:09:00 AM	0:04:48.0
55431	MN	2	10/26/98 03:59:00 PM	10/30/98 09:44:00 AM	0:03:39.0
55124	MN	2	10/27/98 02:08:00 PM	10/27/98 02:10:00 PM	0:03:07.0
55364	MN	2	10/27/98 03:50:00 PM	10/27/98 03:50:00 PM	0:00:46.0
55437	MN	2	10/28/98 05:11:00 PM	10/29/98 03:25:00 PM	0:00:29.0
55305	MN	1	10/27/98 03:20:00 PM	10/27/98 03:20:00 PM	0:09:54.0
85283	AZ	1	10/28/98 05:44:00 PM	10/28/98 05:44:00 PM	0:07:33.0
85024	AZ	1	10/27/98 05:41:00 PM	10/27/98 05:41:00 PM	0:04:06.0
80202	CO	1	10/30/98 01:36:00 PM	10/30/98 01:36:00 PM	0:03:35.0
55118	MN	1	10/30/98 08:37:00 AM	10/30/98 08:37:00 AM	0:03:17.0
97401	ОН	1	10/29/98 02:13:00 PM	10/29/98 02:13:00 PM	0:02:32.0
80206	CO	1	10/28/98 10:09:00 AM	10/28/98 10:09:00 AM	0:02:02.0
68144	NE	1	10/28/98 03:14:00 PM	10/28/98 03:14:00 PM	0:01:51.0
55391	MN	1	10/28/98 05:36:00 PM	10/28/98 05:36:00 PM	0:01:48.0
55011	MN	1	10/26/98 02:30:00 PM	10/26/98 02:30:00 PM	0:01:47.0
85255	AZ	1	10/27/98 05:55:00 PM	10/27/98 05:55:00 PM	0:01:22.0
99216	WA	1	10/30/98 11:29:00 AM	10/30/98 11:29:00 AM	0:01:11.0
97204	OR	1	10/26/98 02:08:00 PM	10/26/98 02:08:00 PM	0:00:57.0
55113	MN	1	10/26/98 03:59:00 PM	10/26/98 03:59:00 PM	0:00:43.0
68102	NE	1	10/26/98 12:05:00 PM	10/26/98 12:05:00 PM	0:00:41.0
98004	WA	1		10/30/98 03:32:00 PM	0:00:41.0
55422	MN	1	10/26/98 11:12:00 AM	10/26/98 11:12:00 AM	0:00:20.0
55102	MN	1	10/27/98 11:47:00 AM	10/27/98 11:47:00 AM	0:00:07.0
55427	MN	1	10/26/98 04:09:00 PM	10/26/98 04:09:00 PM	0:00:06.0
55404	MN	1	10/26/98 04:26:00 PM	10/26/98 04:26:00 PM	0:00:05.0
55420	MN	1	10/26/98 10:05:00 AM	10/26/98 10:05:00 AM	0:00:03.0

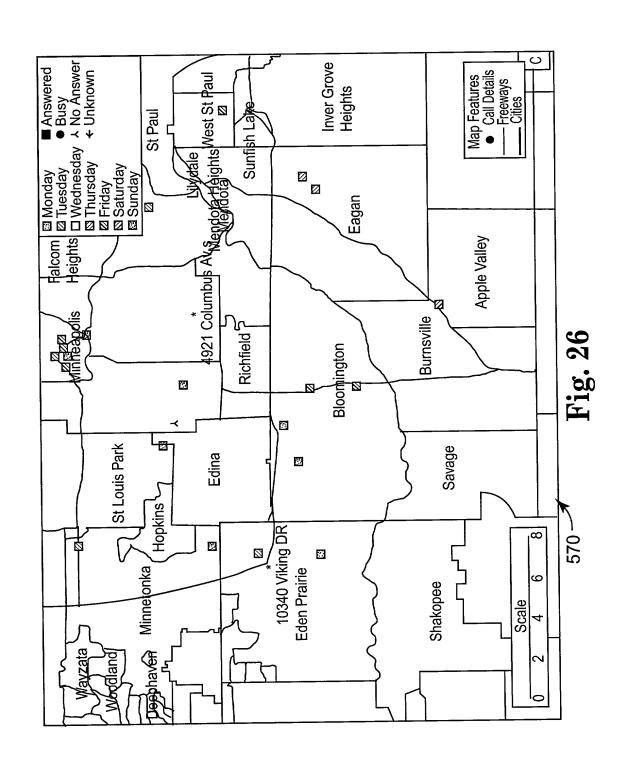
Fig. 23





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